



APPENDIX 6.

PHARMACY TECHNICIAN

APPLICATION OF A SYSTEM APPROACH U.S. NAVY MEDICAL DEPARTMENT EDUCATION AND TRAINING PROGRAMS FINAL REPORT



Prepared under Contract to OFFICE OF NAVAL RESEARCH U.S. DEPARTMENT OF THE NAVY

Quida, C. Upchurch, Capt., NC. USN
Program Manager
Education and Training R&D
Bureau of Medicine and Surgery (Code 71G)

This document has been approved for public release and sale; its distribution is unlimited.

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

	REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
		3. RECIPIENT'S CATALOG NUMBER
ı	Apendi	
ہ	A. TITLE (and Subtility	S. TYPE OF REPORT & PERIOD COVERED
	A System Approach to Navy Medical Education and Training, Appendix 6,	FINAL REPORTS
4	Laucacion and Training, Appendix	E. PERFORMING ONG: REPORT HUMBER
	Pharmacy Technician,	
-	7. AUTHOR(s)	8. CONTRACT OR GRANT NUMBER(*)
	15	N00014-69-C-0246
	9. PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
I	Office of Naval Research	ANEX E HONK ON!! NOMEEN
1	Department of the Navy Arlington, Virginia 22217	43-03X.02
	11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
ı	Office of Naval Research	31-8-74
	Department of the Navy	13. NUMBER OF PAGES
	Arlington, Virginia 22217 14. MONITORING AGENCY NAME & ADDRESS(If different from Controlling Office)	
	Office of Naval Research	15. SECURITY CLASS. (of this report)
-	Department of the Navy	UNCLASSIFIED
- {	Arlington, Virginia 22217	154. DECLASSIFICATION/DOWNGRADING
	16. DISTRIBUTION STATEMENT (of this Report)	· · · · · · · · · · · · · · · · · · ·
	, , , , , , , , , , , , , , , , , , , ,	
	Approved for public release; distribution unlimit	ed. [] 31 1: 12 14
		ed. [1] 31 /: 12 14
	Approved for public release; distribution unlimit	
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different free	m Report)
	Approved for public release; distribution unlimit	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different fro Approved for public release; distribution unlimit	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different free	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different fro Approved for public release; distribution unlimit	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 11 different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse aids II necessary and identify by block number)	m Report)
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 11 different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse elde II necessary and identify by block number) Education and Training Medical	m Report) red. Technician
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 11 different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse elde II necessary and identify by block number) Education and Training Medical Medical Training Job Ana	Technician
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the ebstract entered in Block 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An	Technician
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Black 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse alde If necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu	Technician
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, 18 different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse side 18 necessary and Identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu	Technician lysis alysis lum Development
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse aids if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu 20. ABSTRACT (Continue on reverse aids if necessary and identify by block number) The study objective consisted of a determination	Technician lysis alysis lum Development of what the health care
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different the Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse elde if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu 20. ABSTRACT (Continue on reverse elde if necessary and identify by block number) The study objective consisted of a determination personnel in the Navy's Medical Department, Burea	Technician lysis alysis lum Development of what the health care u of Medicine and Surgery
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the obstract entered in Block 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The study objective consisted of a determination personnel in the Navy's Medical Department, Burea actually do in their occupations; improving the p	Technician lysis alysis lum Development of what the health care u of Medicine and Surgery versonnel process (educa-
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different the Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse elde if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu 20. ABSTRACT (Continue on reverse elde if necessary and identify by block number) The study objective consisted of a determination personnel in the Navy's Medical Department, Burea	Technician llysis alysis lum Development of what the health care u of Medicine and Surgery personnel process (educa- pathway for all health
	Approved for public release; distribution unlimit 17. DISTRIBUTION STATEMENT (of the obstract entered in Block 20, if different free Approved for public release; distribution unlimit 18. SUPPLEMENTARY NOTES None 19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Education and Training Medical Medical Training Job Ana Nurse Training Task An Dentist Training Curricu 20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The study objective consisted of a determination personnel in the Navy's Medical Department, Burea actually do in their occupations; improving the p	Technician ilysis alysis lum Development of what the health care u of Medicine and Surgery ersonnel process (educa- pathway for all health evelop a system of job e manpower tasks. A

DD 1 JAN 73 1473

EDITION OF | NOV 65 IS OBSOLETE 5/N 0102-014-6601 |

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

£8: 130

LLUNITY CLASSIFICATION OF THIS PAGE(When Date Entered)

currently designated Navy enlisted occupations, 20 Naval Enlisted Classification Codes (NEC's) were computerized. A set of 16 groupings that cover all designated occupations was developed so as to enhance the effectiveness of professionals and sub-professionals alike.

accession For
DDC TAB Unamanuaced Justification
Ву
Distribution/
Appliability Coles
Avaidend/or special

FOREWORD

The project, "Application of a System Approach to the Navy Medical Department Education and Training Programs," was initiated in May of 1969 as a realistic, comprehensive response to certain objectives set forth in ADO 43-03X, and to memoranda from both the Secretary of Defense and the Assistant Secretary of Defense, Manpower and Reserve Affairs. The Secretary's concern was stated in his memorandum of 29 June 1965, "Innovation in Defense Training and Education." More specific concerns were stated in the Assistant Secretary's memorandum of 14 June 1968, "Application of a System Approach in the Development and Management of Training Courses." In this he called for "vigorous and imaginative effort," and an approach "characterized by an organized training program with precise goals and defined operational interrelation among instructional system components." He also noted, "Job analyses with task descriptions expressed in behavioristic terms are basic and essential to the development of precise training goals and learning objectives.'

The Project

System survey and analysis was conducted relative to all factors affecting education and training programs. Subsequently, a job-analysis sub-system was defined and developed incorporating a series of task inventories "...expressed in behavioristic terms..." These inventories enabled the gathering of job activity data from enlisted job incumbents, and data relating to task sharing and delegation from officers of the Medical, Nurse and Dental Corps. A data management sub-system was devised to process incumbent data, then carry out needed analyses. The development of initial competency curricula based upon job analysis was implemented to a level of methodology determination. These methods and curriculum materials constituted a third (instructional) sub-system.

Thus, as originally proposed, a system capability has been developed in fulfillment of expressed need. The system, however, remains untested and unevaluated. ADO 43-03X called for feasibility tests and cost-effectiveness determination. The project was designed to so comply. Test and evaluation through the process of implementation has not proved feasible in the Navy Medical Department within the duration of the project. As designed and developed the system does have "...precise goals and defined operational interrelation among instructional system components." The latter has been achieved in terms of a recommended career structure affording productive, rewarding manpower utilization which bridges manpower training and health care delivery functions.

Data Management Sub-System

Job analysis, involving the application of comprehensive task inventories to thousands of job incumbents, generates many millions of discrete bits of response data. processed and manipulated only by high speed computer capability using rigorously designed specialty programs. In addition to numerical data base handling, there is the problem of rapidly and accurately manipulating a task statement data base exceeding ten thousand carefully phrased behavioral statements. the use of special programs, task inventories are prepared, printouts for special purposes are created following a job analysis application, access and retrieval of both data and tasks are efficiently and accurately carried out, and special data analyses conducted. The collective programs, techniques and procedures comprising this sub-system are referred to as the Navy Occupational Data Analysis Language (NODAL).

Job Analysis Sub-System

Some twenty task inventory booklets (and associated response booklets) were the instruments used to obtain job incumbent response data for more than fifty occupations. An inventory booklet contains instructions, formatted questions concerning respondent information ("bio-data"), response dimension definitions, and a list of tasks which may vary in number from a few hundred to more than a thousand per occupational field.

By applying NODAL and its associated indexing techniques, it is possible to assemble modified or completely different inventories than those used in this research. Present inventories were applied about three years ago. While they have been rendered in operational format, they should not be re-applied until their task content is updated.

Response booklets were designed in OPSCAN mode for ease of recording and processing responses.

Overall job analysis objectives and a plan of administration were established prior to inventory preparation, including the setting of provisional sample target sizes. Since overall data attrition was forecast to approximate twenty percent, final sample and sub-sample sizes were adjusted accordingly. Stratified random sampling techniques were used. Variables selected (such as rating, NEC, environment) determined stratifications, together with sub-population sizes. About fifteen percent of large sub-populations were sought while a majority or all members of small sub-populations were sought.

Administration procedures were established with great care for every step of the data collecting process, and were coordinated with sampling and data analysis plans. Once set, the procedures were formalized as a protocol and followed rigorously.

Instructional Sub-System

Partial "competency curricula" have been composed as an integral sub-system bridging what is required as performance on the job with what is, accordingly, necessary instruction in the training process. Further, curriculum materials were developed to meet essential requirements for implementing the system so that the system could be tested and evaluated for cost effectiveness. However, due to the fact that test and evaluation was not **feasi**ble in the Navy Medical Department within the duration of the project, it was not possible to complete the development of the system through the test and evaluation phase. The inability to complete this phase also interrupted the planned process for fully developing the curricula; therefore, instead of completed curricula ready for use in the system, the curricula were partially developed to establish the necessary sub-system methodology. The competency curricula are based on tasks currently performed by job incumbents in 1971. (The currency of a given curriculum depends upon periodic analysis of incumbents' jobs, and its quality control resides in the evaluation of the performance competency of the program's graduates.)

A competency curriculum provides a planned course of instruction or training program made up of sequenced competency units which are, in turn, comprised of sequenced modules. These modules, emphasizing performance objectives, are the foundation of the curriculum.

A complete module would be comprised of seven parts: a cluster of related tasks; a performance objective; a list of knowledges and skills implied by the objective; a list of instructional strategies for presenting the knowledges and skills to the learner; an inventory of training aids for supporting the instructional strategies; a list of examination modes; and a statement of the required training time. In this project, curriculum materials have been developed to various levels of adequacy, and usually comprise only the first three parts; the latter four need to be prepared by the user.

The performance objective, which is the most crucial part of the module, is the basis for determining curriculum content. It is composed of five essential elements: the stimulus which initiates the behavior; the behavior; the conditions under which the behavior takes place; the criteria for evaluating the behavior; and the consequence or results of the behavior. A sixth element, namely next action, is not essential; however, it is intended to provide linkage for the next behavior.

Knowledges and skills listed in the module are those needed by the learner for meeting the requirements of the performance objective.

Instructional strategies, training aids, examination modes and training time have been specified only for the Basic Hospital Corps Curriculum. The strategies, aids and modes were selected on the basis of those considered to be most supportive in presenting the knowledges and skills so as to provide optimum learning effectiveness and training efficiency. The strategies extend from the classroom lecture as traditionally presented by a teacher to the more sophisticated mediated program for self-The training aids, like strategies, extend from instruction. the traditional references and handout material in the form of a student syllabus to mediated programs for self-instruction supported by anatomical models. Examination modes extend from the traditional paper and pencil tests to proficiency evaluation of program graduates on the job, commonly known as feedback. Feedback is essential for determining learning effectiveness and for quality control of a training program. The kind of instructional strategies, training aids and examination modes utilized for training are limited only by such factors as staff capability and training budget.

The training time specified in the Basic Hospital Corps Curriculum is estimated, based upon essential knowledge and skills and program sequence.

The competency curriculum module, when complete, provides all of the requirements for training a learner to perform the tasks set forth in the module. A module may be used independently or related modules may be re-sequenced into modified competency units to provide training for a specific job segment.

Since the curricula are based upon tasks performed by job incumbents in 1971, current analysis of jobs needs to be accomplished using task inventories that have been updated to reflect changes in performed tasks. Subsequent to job analysis, a revision of the curricula should be accomplished to reflect task changes. When the foregoing are accomplished, then faculty and other staff members may be indoctrinated to the competency curricula and to their relationship to the education and training system.

In addition to the primary use for the systematic training of job incumbents, these curricula may be used to plan for new training programs, develop new curricula, and revise existing curricula; develop or modify performance standards; develop or modify proficiency examinations; define billets; credentialize training programs; counsel on careers; select students; and identify and select faculty.

The System

Three sub-systems, as described, comprise the proposed system for Education and Training Programs in The Navy Medical Department. This exploratory and advanced developmental research has established an overall methodology for improved education and training incorporating every possible means of providing bases for demonstrating feasibility and cost effectiveness. There remains only job analysis sub-system updating, instructional sub-system completion, and full system test and evaluation.

Acknowledgements

The authors wish to acknowledge the invaluable participation of the several thousands of Naval personnel who served as respondents in inventory application. The many military and civilian personnel who contributed to developmental efforts are cited by name in the Final Report.

The authors also wish to acknowledge former colleagues for singularly important contributions, namely, Elias H. Porter, Ph.D., Carole K. Kauffman, R.N., M.P.H., Mary Kay Munday, B.S.N., R.N., Gail Zarren, M.S.W., and Renee Schick, B.A.

Identity and acknowledgement of the project Advisory Group during the project's final year is recorded in the Final Report.

Lastly, the project could not have been commenced nor carried out without the vision, guidance and outstanding direction of Ouida C. Upchurch, Capt., NC, USN, Project Manager.

NAVY MEDICAL DEPARTMENT

TASK INVENTORY BOOKLET

PHARMACY

CONSTRAINTS AND ETHICAL USE

This task inventory was developed three years ago in a first-version key punch format for education and training research purposes.

The present "operational" format, using a mark-sense response booklet (Opscan), is recommended for future applications. The task and equipment statements comprising the bulk of the inventory are precisely the same (less duplicate entries) as in the original research tools but rearranged for Opscan mode. Biographical data questions have also been reformatted for Opscan (NEC codes should be updated).

The processing, administering and formatting of this inventory have thus been readied for operational application.

It is strongly recommended that this inventory be updated in its task and equipment statement sections before actual operational use. These reasons pertain:

- Changes in medical or related procedures or techniques
- Some tasks may violate current policy or be obsolete
- Equipment changes may have occurred
- The objective of task comprehensiveness may change
- •Objectives may shift to embrace manpower utilization as well as education and training

In the latter regard, the present operational format includes a "time to perform" dimension (as well as frequency of performance and two additional optional blank response dimension fields). As a response dimension, "time to perform" has been validated within the context of inventories for professional personnel where the objectives embraced utilization (i.e., time associated with shared and delegable tasks). The original Enlisted inventory content was directed to education and training factors only. If "time to perform" is to be used operationally, each task and equipment statement should be examined by expert job incumbents to remove possible overlaps which could confound "time to perform" data. This review process would also serve other purposes cited above.

A general precaution is in order.

When task analysis inventories are poorly prepared, loosely administered, administered according to less than rigorous sampling, or are handled casually in processing or interpretation, they will inevitably produce poor or questionable data, at best. At worst, such practices will result in loss of money and time, and produce dangerous data. Inventories should be prepared, applied, processed and interpreted only by knowledgeable professional and technical personnel. As in the cases of ethically controlled behavior tests, inventories should not be casually copied or distributed, and should remain under the control of authorized, trained personnel. Factors effecting reliability and validity should be fully appreciated.

GENERAL INSTRUCTIONS

There are two parts to be completed for this survey:

Part I Career Background Information
(answers to be recorded in this
TASK BOOKLET)

Part II A List of Tasks (answers to be recorded on the accompanying RESPONSE BOOKLET)

B List of Instruments and
Equipment (answers to be
recorded on the accompanying
RESPONSE BOOKLET)

Each part is preceded by a set of instructions. Be sure to read them carefully before you start answering each part. All instructions are found on the tinted pages.

PLEASE USE ONLY NUMBER 2 LEAD PENCILS. ERASE ALL CHANGES CAREFULLY AND COMPLETELY. DO NOT PUT ANY MARKS OTHER THAN YOUR ANSWERS ON EACH RESPONSE PAGE.

DO NOT FOLD, WRINKLE, CREASE OR DETACH PAGES FROM EITHER TASK BOOKLET OR RESPONSE BOOKLET.

WHEN RECORDING YOUR ANSWERS YOU MAY WANT TO USE A RULER TO READ ACROSS ANSWER AND QUESTION COLUMNS.

WHEN YOU HAVE COMPLETED YOUR RESPONSES, PUT THE TASK INVENTORY BOOKLET AND THE RESPONSE BOOKLET IN THE ENCLOSED SELF-ADDRESSED ENVELOPE. SEAL AND RETURN TO THE OFFICER WHO GAVE YOU THIS PACKAGE. COMPLETED BOOKLETS SHOULD BE RETURNED WITHIN ONE WEEK OF RECEIPT.

CAREER BACKGROUND INFORMATION Check that the Form and Serial Number in this box match those on the cover of this Booklet Please fill out completely		(1) (7)
Name of your Duty StationCity & State (if applicable)		
Your Name Social Security Number		(14)
PLEASE ANSWER QUESTIONS BELOW BY ENTERING THE PROPE NUMBER IN THE BLANKS PROVIDED. TWO BLANKS REQUIRE A TWO-DIGIT ANSWER. DISREGARD NUMBERS IN PARENTHESIS	A ANSWERS	
Q1. Select the number to indicate the Corps to which you belong: 1. Dental Technician 2. Hospital Corps	Q1	(23)
Q2. Indicate your military status: 1. USN 2. USNR	Q2	(24)
Q3. Indicate your pay grade: 1. El 6. E6 2. E2 7. E7 3. E3 8. E8 4. E4 9. E9 5. E5	Q3	(25)
Q4. Indicate your total years of active duty in the Navy to date: (estimate to the nearest year 1. Less than 2 years 2. 2 to 4 years 3. 5 to 8 years 4. More than 8 years	Q4	(26)

		ENTER ANSWERS HERE	·
Q5.	Select the number to indicate your present immediate supervisor:	Q5	(27)
	 Physician Dentist Nurse MSC Officer HM or DT Other (Specify) 		
Q6.	Select the number to indicate the average number of hours you work per week: (estimate to the nearest hour) 1. 35 to 40 hours 2. 41 to 50 hours 3. More than 50 hours	Q6	(28)
Q7.	Please give an estimate of the percent of time you spend on the following (write five percent as <u>05</u>):	Q7.	
	 Inpatient care Outpatient care Teaching Administration Other (specify) 	1% 2% 3% 4% 5%	(29) (31) (33) (35) (37)
Q8.	Assuming that most or all of the following factors are of importance to you, select the three which, if improved, would contribute most to your job satisfaction:	Q8	(39) (41) (43)
	Ol Salary and/or promotion opportunities Ol Retirement benefits Old Housing Old Educational advancement opportunities Old Stability of tour of duty Old Physical facilities and equipment Old Administrative and clerical support Old Work load Old Personal career planning Opportunity to attend professional meetings		(43)
			1

		ENTER ANSWERS HERE	
Q9.	Using the list on page <u>vii</u> specify your current NEC by writing the <u>last two digits</u> of the CODE.	Q9	(45)
Q10.	Select the number to indicate your years of experience corresponding to the NEC stated in Q9: (estimate to the nearest year)	Q10	(47)
	1. Less than 1 year 4. 6 to 10 years 2. 1 to 2 years 5. 11 to 15 years 3. 3 to 5 years 6. More than 15 years		**. *·
Q11.	If you have other NEC(s) in addition to the one specified in Q9, check page vii and indicate the last two digits of the CODE(s). If you have none, enter "99" in answer space for Q11 and Q12.	Q11a	(48) (50)
Q12.	Select the number to indicate the years of experience you had in the NEC(s) stated in Q11 (estimate to the nearest year).	Q12a	(52) (53)
	1. Less than 1 year 4. 6 to 10 years 2. 1 to 2 years 5. 11 to 15 years 3. 3 to 5 years 6. More than 15 years		
Q13.	From the list below, write the <u>two-digit</u> CODE to indicate the specialty of the department in which you are <u>currently</u> functioning.	Q13	(54)
	Ol Administration 18 Urology Ole Education 19 Intensive Care Ole Anesthesiology 20 Operating Room Ole Coronary Care 21 Emergency Room Ole Dermatology 00 Other (specify) Ole Medicine - OPD Ole Medicine - Wards Ole Obstetrics/Gynecology Ole Ophthalmology Ole Orthopedics O		

		ENTER ANSWER HERE	·
Q14.	Select the number to indicate the type of duty station at which you currently work, and have been working for at least 30 days:	Q14	(56)
	 Hospital Dispensary Aboard ship/sub, no M.O. (or D.O.) aboard Aboard ship/sub, M.O. (or D.O.) aboard Aviation squadron/wing, Navy or Marine Marine ground forces Administrative Commands Research Commands or PMUs Dental Clinic Other 		
Q15.	Indicate the number of people you normally supervise:	Q15	(57)
	0. None 3. 6-10 1. 1-2 4. 11-20 2. 3-5 5. over 20		
·	,		

MEDICAL/DENTAL NEC (NAVAL ENLISTED CODE) AND TITLE

General Service, Hospital or Dental Corpsman 0000 Health Physics & Process Control Technician 3371 Nuclear Power Plant Operator 3391 Nuclear Submarine Medicine Technician 8402 Submarine Medicine Technician 8403 Medical Field Service Technician 8404 Advanced Hospital Corps Technician (Class B) 8405 8406 Aviation Medicine Technician 8407 Nuclear Medicine Technician 84 08 Cardiopulmonary Technician 8409 Aviation Physiology Technician 8412 Clinical Laboratory Assistant Technician Tissue Culture Technician 8413 8414 Clinical Chemistry Technician 8415 Medical Technology Technician 8416 Radioactive Isotope Technician 8417 Clinical Laboratory Technician 8432 Preventive Medicine Technician 8433 Tissue Culture and Tissue Bank Technician 8442 Medical Administrative Technician 8452 X-ray Technician 8453 Electrocardiograph/Basal Metabolism Technician 8454 Electroencephalograph Technician 8462 Optician (General) Technician 8463 Optician Technician 8466 Physical and Occupational Technician 8472 Medical Photography Technician 8482 Pharmacy Technician 8483 Operating Room Technician 8484 Eye, Ear, Nose, & Throat Technician 8485 Neuropsychiatry Technician 8486 Urological Technician 8487 Occupational Therapy Technician 8488 Orthopedic Appliance Mechanic 8489 Orthopedic Cast Room Technician 8492 Special Operations Technician 8493 Medical Deep Sea Diving Technician 8494 Physical Therapy Technician 8495 Dermatology Technician 8496 Embalming Technician 8497 Medical Illustration Technician 8498 Medical Equipment Repair Technician 8703 DT General, Advanced 8707 DT Field Service 8713 DT Clinical Laboratory 8714 DT Research Assistant 8722 DT Administrative 8732 DT Repair 8752 DT Prosthetic, Basic 8753 DT Prosthetic, Advanced 8765 DT Maxillofacial Prosthetic

RESPONSE BOOKLET INSTRUCTIONS

- To complete Part II, you need this TASK BOOKLET and the accompanying RESPONSE BOOKLET. Record all your answers to Part II in the RESPONSE BOOKLET.
- All pages of the RESPONSE BOOKLET are machine readable. In order for responses to be properly read, please be sure to:
 - 1. Use a No. 2 pencil only
 - 2. Carefully and completely shade the number corresponding to your answer under each column.
- Complete Page 00 of the RESPONSE BOOKLET first. Follow instructions given on the page. Fill in Line 1, and Boxes 2, 3, 4, and 5. Ignore all other boxes. BE SURE TO ENTER YOUR SOCIAL SECURITY NUMBER (WRITE DOWNWARD) IN THE BLANK SPACES IN BOX 3: then darkly shade the corresponding number on each line. An example of a completed Page 00 is shown on the next page (the handwritten notes in this example are for clarification only. Please do not make similar notes on your RESPONSE BOOKLET.)
- After completing Page 00, carefully read and follow instructions given on pages x through xiv.
- PLEASE HANDLE YOUR RESPONSE BOOKLET CAREFULLY. KEEP IT CLEAN AND AWAY FROM CHEMICALS. DO NOT DETACH, FOLD, WRINKLE OR CROSS OUT ANY PAGE.

,,	5	Ĩ,	ŝ	3	3	Ë	ē	3	ë	9		ï	2	3	3	9		ĵ	9	5
IT RK	ē	3	Ë	3	3	6	Ē	Ï	9	9	9	3	3	3	3		•	3	ē	Ē
5E		R	E	S	P	Ö	1	1:	5	E	B	C)(O	K	L	E	T		
E3		Si	ori	al	1	lo.	•		U	9	33	R								

my name is

1 NAME_

Mary Smith

INSTRUCTIONS

- 1. Use No. 2 pencil ONLY.
- 2. Indicate responses with solid black mark in space provided.
- 3. Erase COMPLETELY all changes.
- 4. Do not detach forms from packet.
- 5. Answer questions 2 through 5 below.
- See Task Statement Booklet for further instructions for completing boxes to the right.

Tody is June 4, 1972

						2	72	ā		7	<u> </u>
2	1202	I	ĵ								
0	H	ē	٤	Ž	3	3	•	l	Ì	Ē	ê
TODAYS	Ö	ı	î	ž	3						
	DKY	ő	ĵ	ŝ	3	1	8	9	۶	5	9
DATE	ΥE	(0)	ĵ	3	3	3	5	5	I	•	\$
	YEAR	ě	3	1	Ş	3	3	•	5	Ē	٤

-71	232086	20:	Ť	##CO#	\$ E	Ĺ	- OC AL	3
1	5	7	9	6	a	4	0	3
(0)	res	(O)	re:	(0)	103	102	1	9
ı	į	ĩ	î	ĩ	3	3	ï	3
3	S S	ŝ	E	ž.	ł	٤	Ē	į
3	3	ŝ	3	3	3	3	3	1
3	2	3	3	3	3	1	3	3
ŝ	ı		ê	3	3	ê	3	3
ê	ê	ē	٤	Į	ē	•	3	ŝ
7	Ş	1	Ž	3	2	ĩ	3	ĩ
9	9	8	9	î.	8	ē.	3	ë
3	3	•	1	9	9	٤	9	5

SEE COVER OF YOUR TASK BOOKLET FORM NAO, Ser. No. 0233

4		5	ë	Š	ê	Ë	É	ĝ	2	Ē	ĩ	ŝ
T	FORM	3	ĵ	1	3	3	3	3	į	•	ŝ	
Y & S	146	•	3	3	3	3		9	Ĵ	8	3	
.00	s	1	3	3	3	3	3	9	9	ê	3	1
OXL	SERIAL	9	3	•	3	3	5	ē	5	8	8	
-	-	3	3	3	ı	3	3	3	3	3	3	
	NO.		3	3		3	Ē	3	3	Ē	5	

מן ליין	g v lev	Z E	To O	_	7	.7	19	74	K O	ď	. 10 2	, 1940 10
5	ZO:	1	3				_					
0 47	RH#	(0)	3	3	3	3	ł	§	3	3	ē	
1	4>0	63	8	3	3							ŀ
•	Ç	ı	3	3	3	3	3	3	3	3	8	
10	YĖA	(0)	Ĩ.	2	3	1	ê	9	3	Ē	ã	
	Â	1	3	ŝ	3	3	ŝ	ŝ	7	Ë	8	

TASK ANALYSIS BACKGROUND
DATA SHEET

			<u>-:</u>	•••	-	==								
n no	6	0.	1	3	3	į	6.	•	į	ė	•	13	, Lo	-
		ė	į	2	į		Ē	ë	2	Ë	•	14	•	1
TASK		101	Ī	Ē	3	ë	•	ŧ	?	Š	:	15	: •:	٤
S T		701	Ĵ	ŝ	3	3	Ë	•	7	į	3	16	(0)	1
ATE	7	103	ĵ	ä	ã	3	ŝ	•	ż	•	ë	17	:01	3
THURBITATE		3	ĩ	ŝ	3	3	:	3	3	3		18	(0)	(-) (-)
		63	ĵ	79.3	3	3	9	•	ĩ	3	:	19	700	
0 0 0		ē	3	3	3	3	3	Ē	3	•	3	20	(0)	3
MUNCHUR	8	103	3	3	ŝ	3	3	ŝ	?	•	3	21	(0)	(-) (-)
108		3	3	3	i	3	3	3	3	9	9	22	703	3
	İ	£ 63	3	3	3	3	3	ë	?	į	ê	23	(0)	17:3
) 3 T		83	3	3	ĩ	3	3	ê	2	€	ê	24	60	1
	9	603	3	ŝ	3	3	3	3	3	ê	9	25	(0)	(m) [m] [m] [m] [m]
T		3	3	ŝ	ä	3	3	•	3	•	ê	26	ê	1 (-3
*		9	3	3	3	3	3	•	3	•	9	27	69	(2)
T0 C		3	3	3	3	3	9	9	3	3	•	28	(0.3	
m-1777.37200	10	COL	3	3	3	3	3	•	-3	ê	3	29	3	6-3
T.		9	3	3	3	3	3	3	3	9	•	30	(0)	t=1
1	11	î	3	3	3	3	E	3	7	ê	:	31	?03	(-) (-) (-) (-)
90 SET 18		8	3	ŝ	3	3	3	Ē	3	3	9	32	CO 3	£-3
	12	103	3	ŝ	3	3	3	ê	?	Ē	5	33	€3	1-1
; ;		(6)	ĵ	3	3	3	3	3	3	3	. 5	34	9	(-)
		_					_			_	_		_	_

Ignore these topes

PART II

PART II A LIST OF TASKS

PART II B LIST OF INSTRUMENTS AND EQUIPMENT

HOW TO RESPOND TO TASK STATEMENTS AND INSTRUMENTS

Your responses to each statement should be marked on the corresponding page, column and item number in your RESPONSE BOOKLET.

Note that each page in your RESPONSE BOOKLET has two response blocks. The left-hand block (items 1-25) is for entering responses to statements printed on LEFT pages of this TASK BOOKLET; the right-hand block (items 26-50) is for the responses to statements printed on RIGHT pages. Make sure that your answers are recorded in the appropriate block on every page. DO NOT MAKE ANY MARKS OTHER THAN YOUR ANSWERS!

Each time you start a new page in your RESPONSE BOOKLET, check the page on your TASK BOOKLET. See that the numbers match; then mark the page number in "Box X" in the response page (see instructions at the top of response page.) This is necessary for computer processing.

Tear the Response Guide (p. xiii) at the perforation, and use the correct side to respond to each task or instrument found on the following white pages. Note the following detailed explanation of responses. Column A - (the responses to Column A differ for Part II A and Part II B, be sure to use the appropriate set of responses.)

Part II A

How often did you do this task within the last month? (If you were on leave, consider your immediate past working month.)

- 0 = Did not do
- 1 = Did <u>less than 5</u> times
- 2 = Did 5 to 20 times
- 3 = Did 21 to 50 times
- 4 = Did 51 to 100 times
- 5 = Did more than 100 times

Part II B

How often did you use this instrument or piece of equipment within the last month? (If you were on leave, consider your immediate past working month.)

- 0 = Did not use
- 1 = Used <u>less than 5</u> times
- 2 = Used 5-20 times
- 3 = Used 21-50 times
- 4 = Used 51-100 times
- 5 = Used more than 100 times

If answer in Column A is 0, go to the next statement. If answer is 1, 2, 3, 4 or 5, answer also Columns B, C & D.

Column B

Indicate the approximate time you spent on a <u>single</u> performance the last time you performed this task.

- 0 = less than one minute
- 1 = 1 to 4 minutes
- 2 = 5 to 10 minutes
- 3 = 11 to 20 minutes
- 4 = 21 to 30 minutes
- 5 = 31 to 60 minutes
- 6 = 1 to 2 hours
- 7 = more than 2 hours

Column C

Do you feel you need additional training to perform this task?

- 0 = No
- 1 = Yes

RESPONSE GUIDE

(DO NOT LOSE THIS TAB)

HOW TO RESPOND TO PART IIA - LIST OF TASKS

IF A = 1-5, ANSWER COLUMNS B, C & D ALSO. IF A = 0, GO TO NEXT STATEMENT: ANSWER COL. A FIRST.

	OPTION (Additional instructions will be given if this column is used)	
N	DO YOU FEEL YOU NEED ADDITIONAL TRAINING TO PERFORM THIS TASK?	O=NO
	TIME CONSUMED (single performance NEI the last time TR performed) FOI	0=LESS THAN 1 MINUTE
c	FREQUENCY	0=DID NOT DO LAST MONTH

0=DID NOT DO LAST MONTH 0=LESS THAN 1 MINUT 1=DID LESS THAN 5 TIMES 1=1 TO 4 MINUTES 2=DID 5 TO 20 TIMES 3=DID 21 TO 50 TIMES 3=11 TO 20 MINUTES 4=DID 51 TO 100 TIMES 5=31 TO 60 MINUTES 6=1 TO 2 HOURS

-MORE THAN 2 HOURS

1=YES

RESPONSE GUIDE

(DO NOT LOSE THIS TAB)

HOW TO RESPOND TO PART IIB - LIST OF INSTRUMENTS AND EQUIPMENT

ANSWER
COL.
A
ANSWER COL. A FIRST.
IF A
11
0
ය ද
GO TO
0, GO TO NEXT
STATEMENT:
H
A
11
A = 1-5,
ANSWER
COLUMN
SB,
C
82
Ū
ALSO.

ಭ C D

4=USED 2=USED 5 5=USED MORE THAN 100 TIMES 3=USED 0=DID NOT USE LAST MONTH 1=USED LESS THAN 5 TIMES) 5 TO 20 TIMES) 21 TO 50 TIMES) 51 TO 100 TIMES FREQUENCY 6=1 TO 2 HOURS 5=31 TO 60 MINUTES 4=21 TO 30 MINUTES 3=11 TO 20 MINUTES 2=5 TO 10 MINUTES 0=LESS THAN 1 MINUTE 7=MORE THAN 2 HOURS 1=1 TO 4 MINUTES (last time used) TIME CONSUMED FORM THIS TASK? DO YOU FEEL YOU TRAINING TO PER-NEED ADDITIONAL 0=NO 1=YES (Additional instructions column is used) will be given if this OPTION

Part II A
LIST OF TASKS

alegae distriction		
LEFT	PAGE	OI PHARMACY TASK BOOKLET
I TAS		I ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 01 OF RESPONSE BOOKLET
		COMPUTE PHARMACEUTICAL WEIGHTS AND MEASURES, E.G. APOTHECARY, ITROY, METRIC
	2	CONVERT MEDICATION DOSAGE FROM CC TO MINIMS, GRAINS TO GRAM
	-	CONVERT COMMON WEIGHTS AND MEASURES FROM ONE SYSTEM TO ANOTHER, LEGG. CC TO TSP, LBS TO KG
		CONVERT SOLUTION CONCENTRATIONS FROM GM/MG % TO MEQ/L AND VICE VERSA
		CONVERT PRESCRIBED DOSE INTO UNITS OF ADMINISTRATION, E.G. NUMBER, OF CC, TABLETS
	6	CALCULATE STRENGTH OF SOLUTIONS, E.G. MG %, MEQ/L
	7	CALCULATE AND PREPARE PERCENT SOLUTIONS
	8	CALCULATE AND PREPARE NORMAL/MOLAR SOLUTIONS
	9	ICALCULATE AND PREPARE MOLAL SOLUTIONS
	10	
		 CALCULATE MOLAR/NORMAL CONCENTRATIONS OF REAGENTS FOR BUFFER PREPARATION
	12	PREPARE BUFFER SOLUTIONS
		COMPUTE AMOUNTS OF INGREDIENTS FOR COMPOUNDING/PREPARING PHARMACEUTICALS
	14	WEIGH/MEASURE CHEMICALS
	15	CHECK WEIGHING/MEASUREMENTS DONE BY CTHER TECHNICIANS
	16	MAKE ENTRIES INTO BULK COMPOUNDING LOG
	17	COMPOUND ANTIDOTES
	18	I ICOMPOUND CAPSULES I
	19	 COMPOUND COLLODIONS
	20	 COMPOUND CONCENTRATES OF MEDICINAL PREPARATIONS
	21	COMPOUND ELIXIRS
	22	I ICOMPOUND EMULSIONS
	23	 COMPOUND EXTRACTS

COMPOUND FLUTDEXTRACTS

ICOMPOUND GLYCERITES

24

25

D	TOUT	PAGE	01
ĸ	IGMI	PAGE	01

4	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 01 OF RESPONSE BOOKLET
26	COMPOUND LINIMENTS
27	COMPOUND LOTIONS
28	ICOMPOUND MUCILAGES
29	 COMPOUND DINTMENTS
30	1 ICOMPOUND INSECTICIDES/RODENTICIDES I
31	 COMPOUND PASTES
32	COMPOUND POWDER
33	COMPOUND SPIRITS
34	I COMPOUND SUPPOSITORIES
35	COMPOUND TINCTURES
36	COMPOUND WATERS
37	COMPOUND MAGMAS
38	 PREPARE CAPSULES
39	 PREPARE EMULSIONS
40	PREPARE LINIMENTS/LOTIONS
	I Prepare Mixtures I
42	PREPARE DINTMENTS/PASTES
43	 PREPARE SPIRITS
44	PREPARE SUPPOSITORIES
45	I Iprepare tinctures I
46	PREPARE VACCINES FOR USE
47	PREPARE ISOTONIC SOLUTIONS
48	I IPREPARE OPHTHALMIC SOLUTIONS I
49	I IPREPARE ELIXIRS I
50	 MANUFACTURE 70% ALCOHOL

	To develop the state of the sta
LEFT PAGE	02 PHARMACY TASK BOOKLET
	I ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE OZ I OF RESPONSE BOOKLET
1	PREPARE AND BOTTLE I.V. SOLUTIONS, E.G. RINGER'S LACTATE
2	ADD MEDICATION TO AND LABEL I.V. SOLUTIONS
3	MIX BLADDER IRRIGATION SOLUTION
4	 MAKE DILUTIONS OF MEDICINALS
5	 DILUTE OR MIX POWDERED MEDICATIONS -
6	
7	 PREPARE LOCAL ANESTHETIC SOLUTIONS FOR USE
8	PREPARE INFANT FORMULAS
9	INTERPRET FORMULA/DIRECTIONS FOR COMPOUNDING PHARMACEUTICALS
10	! !READ/USE PHARMACEUTICAL MANUALS, FORMULARY, PDR
11	
12	 REVIEW/UPDATE PHARMACEUTICAL COMPOUNDING FORMULA REFERENCE FILE
	 DETERMINE COMPATABILITIES OF INGREDIENTS FOR COMPOUNDING PHARMACEUTICAL
14	CALCULATE PEDIATRIC DOSAGE OF COMPOUNDED MEDICINALS
15	
16	 DEVELOP NEW FORMULAS FOR COMPOUNDING PHARMACEUTICAL
17	 TEST SHELF LIFE OF NEW FORMULA
18	CALCULATE DOSAGE OF DIAGNOSTIC PHARMACEUTICAL, E.G. BSP DYE
19	1 Prepare CO2 Slush 1

20

21

22

23

24

25

INOTIFY DOCTOR OF ERRORS IN PRESCRIPTION

PREPARE PATCH TEST SOLUTION USING PATIENT'S SUSPECTED ALLERGENS

ICHECK PRESCRIPTIONS FOR INCOMPATABILITY/IDIOSYNCRACIES OF

CHECK PRESCRIPTIONS FOR COMPLETENESS, E.G. DRUG, DOSE, FORM, SIG., PRESCRIBER ID

ICHECK PRESCRIPTIONS FOR ACCURACY OF CALCULATIONS

(CONCURRENTLY PRESCRIBED MEDICATIONS

ICHECK PRESCRIPTIONS FOR OVERDOSAGE

RIGHT PAGE C	2 PHARMACY TASK BOOKLET
	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 02 OF RESPONSE BOOKLET
	CONFER WITH PRESCRIBING DOCTOR ON QUESTIONS CONCERNING PRESCRIPTIONS
27	TRANSLATE/TRANSFER/TYPE PRESCRIPTION INFORMATION ON LABEL
28	FILL PATIENT PRESCRIPTIONS
29	CHECK PRESCRIPTIONS FILLED BY TECHNICIANS
30	ISSUE FILLED PRESCRIPTIONS
31	ISSUE NON-PRESCRIPTION MEDICATIONS E.G. ASPIRIN
32 I	FILE PRESCRIPTIONS
33	SET UP PRESCRIPTION FILES
	PREPARE SUMMARY OF PRESCRIPTIONS FILLED FOR INPATIENTS AND OUTPATIENTS
3 5	WRITE PRESCRIPTION RENEWALS FOR DOCTOR'S SIGNATURE
36	CHECK ORDERED MEDICATION AGAINST LIST OF RECALLED (UNSAFE) DRUGS
37	FILL WARD/CLINIC PHARMACY REQUISITIONS
38	PREPARE UNIT DOSE FOR WARDS
39	PACKAGE DRUG ORDERS FOR WARD/CLINIC/DEPARTMENT ISSUE
40	DELIVER REQUISITIONED PHARMACEUTICALS TO WARD/CLINIC
41	ISSUE DRUG KITS/FILLERS
42	STOCK ANESTHETIC CART
43	PREPARE MEDICATIONS AND RECORDS FOR PATIENT IN FLIGHT
44	COORDINATE DOCTORS REQUESTS FOR DRUG TRAVEL KITS
45	DETERMINE MEDICATIONS AND SUPPLIES FOR DRUG KITS
46	ASSEMBLE/PACK DRUG KITS ACCORDING TO CHECK LIST
47	ANSWER PERSONNEL INQUIRIES REGARDING MIXING/ADMINISTERING DRUGS
48	PROVIDE INFORMATION ON SYMPTOMS/TREATMENT OF DRUG TOXICITY
49	ANSWER INQUIRIES REGARDING DRUG REACTION
	INFORM PATIENT/FAMILY OF SYMPTOMS OF INTOLERANCE/OVERDOSE TO MEDICATION, E.G. BLEEDING GUMS, COMA

	EF	T	ø	٨	c	E	n	3
•			•	•	u	E .	v	

LEFT PAGE	O3 PHARMACY TASK BOOKLET
I TASK NO.	1 ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 03 1 OF RESPONSE BOOKLET
ı	TEXPLAIN/ANSWER PATIENT/FAMILY QUESTIONS ABOUT MEDICATIONS, E.G. PURPOSE, DOSE, SCHEDULE
2	ANSWER PATIENT INQUIRIES REGARDING NONPRESCRIPTION CRUGS
3	TEACH PATIENT SELF-ADMINISTRATION OF MEDICATIONS (OTHER THAN INJECTIONS)
4	TEACH PATIENT/FAMILY ADMINISTRATION OF INJECTIONS
5	TEACH PATIENT MEDICATION STORAGE REQUIREMENTS, E.G. REPRIGERATION, EXPIRATION DATE
6	COMPLETE REPORT FORMS ON ADVERSE DRUG REACTION
7	
8	I INEGOTIATE WITH CIVILIAN SUPPLIERS REGARDING NEW DRUGS
9	 ORDER DRUGS LISTED IN FEDERAL SUPPLY CATALOGUE
10	IVERIFY/SIGN OFF ON DRUGS THAT ARE DELIVERED TO THE PHARMACY
11	I ICHECK DRUGS FOR SUPPLY NEEDS I
12	CALCULATE FUTURE DRUG SUPPLY REQUIREMENTS FOR THE PHARMACY
13	I IDETERMINE SIMILARITIES BETWEEN PHARMACEUTICAL TRADE NAMES AND IGENERIC NAMES
14	NEGOTIATE WITH PHARMACEUTICAL COMPANY REPRESENTATIVES FOR FREE INTRODUCTORY SAMPLES
15	DO AN INVENTORY OF DRUGS OTHER THAN NARCOTICS AND CONTROLLED DRUGS
16	PREPACKAGE PHARMACEUTICALS WITH MACHINES
17	 Prepackage Pharmaceuticals manually
18	 PACKAGE/BOTTLE PHARMACEUTICAL BULK STOCK FOR DISPENSING
19	 PACKAGE/PREPARE PHARMACEUTICALS FOR SHIPMENT
20	I ATTACH AUXILIARY LABELS TO CONTAINER, E.G. SHAKE WELL I
21	I TATTACH PREPACKAGING LABELS TO DRUG CONTAINERS
22	SET UP/ASSIGN LOT AND CONTROL NUMBERS FOR DRUGS
23	(ICLASSIFY AND STORE DRUGS I
24	 REPLACE STOCK IN PHARMACY FROM RESERVES
25	I PHARMACEUTICAL STOCKS TO INSURE FRESHNESS AND POTENCY

RIGHT PAGE	03 PHARMACY TASK BOOKLET
	1 ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 03 1 OF RESPONSE BOOKLET
26	SAFEGUARD POISONS
	! ICHECK DRUGS FOR VISIBLE CONTAMINATION/DETERIORATION, E.G. !CLOUDINESS, COLOR CHANGE
28	IDO A CULTURE TEST ON DRUGS SUSPECTED OF BACTERIAL CONTAMINATION
29	 INSPECT DRUG STORAGE IN WARD/CLINIC/DEPARTMENT
30	 DISPOSE OF/RETURN MEDICATIONS/DRUGS WHOSE SHELF-LIFE HAS EXPIRED -
31	I IDISPOSE/REPACK UNCLAIMED MEDICATIONS/DRUGS
32	1 RETURN/EXCHANGE EXPIRED/RECALLED PHARMACEUTICALS TO MANUFACTURER 1
33	I IDETERMINE WHETHER TO DESTROY OR TO RETURN PHARMACEUTICALS TO IMANUFACTURER
34	 MONITOR EXPIRATION DATED PHARMACEUTICALS
35	 RECORD DRUG WASTAGE
36	 CHECK REQUISITIONS AGAINST DRUG ISSUES
37	RECEIVE AND LOG INCOMING PHARMACEUTICALS IN BULK
38	PREPARE/CHECK PACKING LIST OF PHARMACEUTICALS TO MANUFACTURER
39	PREPARE REFERENCE DRUG LISTS, E.G. QUANTITY LIMITED, PREPAK IQUANTITY
40	WASH GLASSWARE/INSTRUMENTS
41	PREPARE DRY ICE USING CARBONDIOXIDE (CO2)
42	
43	
44	 FILL INVESTIGATIONAL DRUG PRESCRIPTION
45	TRANSPOSE NARCOTIC/CONTROLLED DRUG PRESCRIPTION ONTO IBM CARDS
46	PREPARE LYTIC COCKTAIL
47	PREPARE NAVMED 6710/1 FOR ISSUE
48	I IISSUE NARCOTICS FOR COMPOUNDING

DELIVER NARCOTICS/CONTROLLED DRUGS/ALCOHOL TO WARD/CLINIC/OTHER DEPARTMENTS

ACCEPT/TAKE PROPER ACTION ON RETURNED NARCOTICS/CONTROLLED DRUGS

50

LEFT PAGE	04 PHARMACY TASK BOOKLET
I TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 04 OF RESPONSE BOOKLET
1	PREPARE LIST OF RETURNED NAVMED 6710/1
2	DISTRIBUTE NARCOTIC PRINT OUT
3	COMPILE LIST OF OUTSTANDING WARD NARCOTICS
4	SEARCH FOR UNACCOUNTABLE WARD/CLINIC NARCOTICS/CONTROLLED DRUGS
5	CHECK/COUNT NARCOTICS/CONTROLLED DRUGS
6	DO PRE INVENTORY COUNT OF NARCOTICS (SAFE & VAULT)
7	DO FORMAL INVENTORY OF NARCOTICS AND CONTROLLED DRUGS
8	ORDER NONSTANDARD NARCOTICS
9	DETERMINE STORAGE AREA FOR NARCOTICS/CONTROLLED DRUGS
10	PREPARE STORAGE FOR SUPPLY OF NARCOTICS/CONTROLLED DRUGS
11	
12	RECORD ISSUED NARCOTICS/CONTROLLED DRUGS ON PERPETUAL INVENTORY
13	MAKE ENTRIES INTO CONTROLLED DRUG/ALCOHOL LOG
14	MAKE ENTRIES ON NAVMED 1397 (24 HOUR INVENTORY)
15	UPDATE NARCOTIC LEDGER
16	PREPARE SUMMARIES OF NARCOTIC/CONTROLLED DRUG/ALCOHOL ISSUES
17	RECEIVE RADIOPHARMACEUTICAL
18	DISTRIBUTE RADIOPHARMACEUTICAL TO CLINIC SECTIONS
19	SHIP RADIOPHARMACEUTICAL
20	STORE RADIOPHARMACEUTICAL
21	CALCULATE RADIOPHARMACEUTICAL DOSE
22	DEPYROGENATE/STERILIZE CHEMICAL COMPOUNDS
23	PREPARE QUALITY CONTROL CULTURES
24	RUN CONTROL TEST'S TO VALIDATE MEDIA
25	IDENTIFY BACTERIA BY BASIC CULTURE TECHNIQUES

RIGHT PAGE (04 PHARMACY TASK BOOKLET
•	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 04 OF RESPONSE BOOKLET
26	IDENTIFY BACTERIA BY STAINING METHODS
27	DO BACTERIAL COUNTS BY FILTRATION, E.G. MILLIPORE
28	DD BACTERIAL COUNTS BY DILUTION
29	DO BACTERIAL COUNTS BY CALIBRATED LOOP
	WASH/PREPARE GLASSWARE FOR LAB USE, INCLUDING SPECIAL PREPARATION, E.G. ACID WASH, SILICONE COAT
31	CHECK/ADJUST PH OF BUFFERS/REAGENTS
32	PREPARE CHEMICAL STANDARDS
33	STANDARDIZE REAGENTS
34	PREPARE CULTURE MEDIA FROM BASIC INGREDIENTS, E.G. BEEF EXTRACT
	PREPARE CULTURE MEDIA USING COMMERCIALLY DEHYDRATED PRODUCT, E.G. MC CONKEY AGAR
36	STREAK CULTURE MEDIA
37	PREPARE SPECIAL STAINS
	LOOK UP NORMAL VALUES FOR LABORATORY TESTS FROM REFERENCE TABLE/ BOOK
39	USE LOG TABLES
40	CONVERT CENTIGRADE TEMPERATURE TO FAHRENHEIT OR VICE VERSA
. –	READ EQUIPMENT MANUALS FOR OPERATION AND MAINTENANCE OF EQUIPMENT
42	USE NAVY/DOD MANUALS TO STUDY ANALYTICAL PROCEDURES
43	CALCULATE LAB/DIAGNOSTIC TEST RESULTS
44	DETERMINE ADEQUACY OF STERILIZATION PROCEDURES
45	CHECK INSTRUMENTS AND SUPPLIES FOR STERILIZATION INDICATORS
46	MAKE UP STERILE TRAYS
	TRANSPORT STERILE EQUIPMENT/SUPPLIES, RETURN DIRTY OR EXPIRED ITEMS TO CENTRAL SUPPLY ROOM
48	PREPARE AND STERILIZE LINEN
49	PREPARE RUBBER GOODS FOR STERILIZATION
50	STERILIZE NEEDLES

LEFT PAGE	05 PHARMACY TASK BOOKLET
TASK NO.	I ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 05 1 OF RESPONSE BOOKLET
1	PREPARE SOLUTION BOTTLES FOR STERILIZATION AND STORAGE
2	
3	
4	 DETERMINE/SELECT AGENTS/PROCESSES FOR EQUIPMENT/INSTRUMENT STERILIZATION
5	TEST AUTOCLAVE EFFECTIVENESS WITH CULTURE STRIPS
6	PREPARE SILK, COTTON, WIRE SUTURES FOR STERILIZATION
7	 DISINFECT INSTRUMENTS/MATERIALS/EQUIPMENT
8	 Depyrogenate glassware
9	PREPARE NORMAL SALINE SOLUTION
10	
11	READ EQUIPMENT MANUALS FOR OPERATION AND MAINTENANCE OF EQUIPMENT
12	RUN TEST STANDARD TO CHECK ACCURACY OF EQUIPMENT
13	CALIBRATE EQUIPMENT
14	DO MINOR REPAIR ON EQUIPMENT
15	SUPERVISE ROUTINE EQUIPMENT MAINTENANCE FOR SECTION/UNIT
16	PREPARE SCHEDULE FOR CONTRACT PREVENTIVE MAINTENANCE
17	PREPARE PAPERWORK FOR EQUIPMENT REPAIR/MAINTENANCE
18	TARRANGE FOR REPLACEMENT/REPAIR OF EQUIPMENT AS REQUIRED
19	COORDINATE WITH MANUFACTURERS/CONTRACTORS FOR EQUIPMENT REPAIR/
20	MAINTAIN INVENTORY/STOCK OF EQUIPMENT/FURNITURE
21	SURVEY EQUIPMENT TO DETERMINE CONTINUED SERVICEABILITY/USABILITY
22	EVALUATE THE MAINTENANCE AND USE OF SUPPLIES, EQUIPMENT AND WORK SPACE
23	DETERMINE SUPPLIES AND EQUIPMENT BUDGET

CONFER/VISIT MANUFACTURERS/CONTRACTORS TO OBTAIN FIRST HAND KNOWLEDGE OF EQUIPMENT/SUPPLIES

INEGOTIATE WITH VENDORS, E.G. COST, DELIVERY SCHEDULE

25

RIGHT PAGE	O5 PHARMACY TASK BOOKLET
I TASK NO.	I ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 05 OF RESPONSE BOOKLET
26	
27	PROJECT COSTS FOR EQUIPMENT NEEDS
28	ORDER SUPPLIES/EQUIPMENT THROUGH FEDERAL SUPPLY SYSTEM
29	COORDINATE ON EQUIPMENT LOANS, BORROWING OF MEDICAL/DENTAL SUPPLIES/TRAINING AIDS
30	TYPE
31	DO ROUTINE FILING
32	WRITE/ENTER INTO LOG MINUTES/NOTES OF MEETINGS
33	PREPARE AUTOMATED DATA PROCESSING CODE SHEETS
34	PERFORM MATHEMATICAL CALCULATIONS
35	COMPLETE POISON REPORT
36	COMPLETE REPORT FORMS ON DRUG ABUSE
37	MAINTAIN CARDEX FILE/SYSTEM
38	MAINTAIN LOG OF QUALITY CONTROL PROCEDURES
39	TRANSCRIBE PHYSICIAN'S OPDERS
40	AMEND CROSS REFERENCE LIST OF INSTRUCTIONS/MATERIALS
41	ANSWER QUERIES FROM CIVILIAN ASSOCIATIONS/INDIVIDUALS
42	CHECK/CORRECT CALCULATIONS PERFORMED BY OTHER TECHNICIANS
43	PREPARE VISIT INSPECTION REPORT
44	DOCUMENT NEW OR CHANGED PROCEDURES
45	MAINTAIN SIGNATURE FILE
46	MAINTAIN ATTENDANCE RECORDS
47	MAINTAIN PERSONNEL RECORDS
48	FILL OUT TIME SHEETS
49	PREPARE WORK ORDERS/WOPK REQUESTS
50	PREPARE NAVY DISBURSING FORMS

LEFT	PAGE	06 PHARMACY TASK BOOKLET
1 TAS		1 ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE OF OF RESPONSE BOOKLET
****	l	PREPARE MARINE CORPS DISBURSING FORMS
	2	 PREPARE REQUEST FOR TAD/AUTHORIZATION ORDER
-	3	PREPARE NECESSARY PAPERWORK TO UPDATE ORGANIZATION CHARTS
	4	LOG LOSS OF SUPPLIES AND NOTIFY INVENTORY CONTROL OF LOSS
	5	ENSURE THAT SAFE INDUSTRIAL PRACTICES ARE ADHERED TO. E.G. USE OF PROTECTIVE EYE GLASSES
	6	APPROVE REQUISITIONS
	7	 Draft official correspondence
	8	PREPARE REPORTS FOR TRANSMITTAL TO OTHER COMMANDS
	9	 EVALUATE THE ADEQUACY/EFFECTIVENESS OF ROUTINE REPORTS
	10	PREPARE STANDING OPERATING PROCEDURES, GUIDES AND INSTRUCTIONS
		MAKE FINAL DECISION ON REJECTION/ACCEPTANCE OF DRAFTS/FINAL TYPED MATERIAL
	12	COMPOSE/DRAFT AN AGENDA FOR STAFF MEETINGS
	13	INTERPRET BUPERS MANUALS/INSTRUCTIONS/NOTICES
	14	COORDINATE WITH SCHOOL GUIDANCE DEPARTMENTS
	15	SESTABLISH LIAISON WITH CIVILIAN SPECIALISTS/CONSULTANTS
	16	ASSESS ACCURACY OF ANALYSIS PERFORMED BY OTHER LABORATORIES
	17	ASSESS COMPLETENESS OF LABORATORY REPORTS
	18	INSPECT THE PHYSICAL LAYOUT OF PHARMACY FACILITIES
	19	PLAN THE DEPARTMENT/UNIT PHYSICAL LAYOUT
	20	INSPECT CONDITION OF ACID LOCKER/VAULT
	21	ASSIGN WORK TO PATIENTS
	22	SERVE AS MEMBER OF ALCOHOL AND NARCOTIC INVENTORY BOARD
	23	INVESTIGATE/REPORT ON INJURIES/INCIDENTS TO PATIENTS/STAFF/
	24	PREPARE DRUG ABUSE REPORTS
	25	! !reviem/update formulary

RIGHT PAGE	06 PHARMACY TASK BOOKLET
TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 06 OF RESPONSE BOOKLET
26	IMODIFY OR WRITE NEW TECHNICAL PROCEDURES
27	INITIATE NEW OR CHANGED TECHNICAL PROCEDURES
28	CONSULT WITH STAFF TO DESIGN/AMEND/UPDATE PROCEDURES /TECHNIQUES
29	
30	COORDINATE PROCEDURES FOR DATA PROCESSING
31	ADMINISTER/MAINTAIN UNIT LIBRARY
32	COORDINATE/ARRANGE TOURS OF FACILITIES
33	
34	COORDINATE WITH LEGAL SERVICES
35	DETERMINE PARKING AREAS/GARAGE ARRANGEMENTS FOR VEHICLES
36	COMPOSE/OR REVISE JOB/POSITION DESCRIPTIONS
37	CONDUCT STAFF MEETINGS TO DISCUSS PLANS/ACTIVITIES/PROBLEMS
38	DETERMINE THE PHYSICAL LAYOUT OF WORK AREA FURNITURE/EQUIPMENT
39	 GIVE DIRECT SUPERVISION TO EMPLOYEES
40	GIVE DIRECT SUPERVISION TO CORPSMEN/TECHNICIANS
41	DETERMINE CONTENT OF MILITARY REPORTS ON PERSONNEL, E.G. EVALUATION REPORTS
42	DETERMINE CONTENT OF CIVILIAN PERFORMANCE APPRAISAL REPORTS
43	
44	REVIEW SUGGESTIONS AND COMPLAINTS FROM PERSONNEL
45	 EVALUATE THE PERFORMANCE OF PERSONNEL
46	SERVE ON PROMOTION/DEMOTION OR RECLASSIFICATION BOARDS
47	RECOMMEND PERSONNEL FOR EDUCATION/TRAINING

SUPERVISE THE MAINTENANCE OF OFFICE RECORDS

50

TENSURE THAT SAFE INDUSTRIAL PRACTICES ARE ADMERED TO, E.G. USE OF PROTECTIVE EYE GLASSES

APPROVE/DISAPPROVE REQUESTS FOR ADDITIONAL PERSONNEL

LEFT PAGE	07 PHARMACY TASK BOOKLET
I TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 07
1	OF RESPONSE BOOKLET
	APPRECIATION
2	ARRANGE TIME/DETAIL SCHEDULES
3	APPROVE TIME/DETAIL SCHEDULES
4	DETERMINE DUTIES FOR PERSONNEL
5	REQUEST/RECOMMEND ADDITIONAL PERSONNEL WHEN REQUIRED
6	COORDINATE WITH BUMED ON MATTERS PERTAINING TO PERSONNEL
7	INTERVIEW/COUNSEL/ADVISE STAFF
8	COUNSEL/ADVISE/GUIDE PERSONNEL TOWARD ADVANCEMENT
9	 SUPERVISE/DIRECT UNITS*S OJT PROGRAM
10	PLAN CONTENT FOR OJT PROGRAM
11	SCHEDULE LECTURES
12	DESIGN TRAINING AIDS, ILLUSTRATIONS, GRAPHICS
13	SELECT CLINICAL MATERIAL FOR INSTRUCTIONAL PURPOSES, E.G. PATIENTS, CASE STUDIES
14	EVALUATE/SELECT AUDIOVISUAL MATERIALS, E.G. FILMS
15	CONDUCT SEMINARS
16	PLAN CONFERENCES FOR STUDENTS DURING PRACTICAL TRAINING
17	TEACH FORMAL CLASSES
18	ADMINISTER EXAMINATIONS
19	COMPUTE TEST GRADES
20	DEMONSTRATE CLINICAL PROCEDURES USING PATIENT/SUBJECT
21	SELECT WORK EXPERIENCES FOR STUDENT/TRAINEE
22	
23	COORDINATE WITH SUPERVISORS/INSTRUCTORS ON STUDENT TRAINING
24	DESIGN SPECIAL RESEARCH EQUIPMENT/DEVICES
25	 BUILD SPECIAL EQUIPMENT/DEVICES FOR RESEARCH

IGHT PAGE	07 PHARMACY TASK BOOKLET
TASK NO.	I ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 07 I OF RESPONSE BOOKLET
26	CALCULATE DOSAGES FOR PRESCRIBED EXPERIMENTS
27	RECORD/MAINTAIN RECORDS OF EXPERIMENTAL FINDINGS/TESTS
28	
29	
30	PERFORM CALCULATIONS FOR ANALYSIS OF VARIANCE, CORRELATIONS, OR IRELIABILITY MEASURES
31	IMAINTAIN ANIMAL COLONY
32	I IACT AS OBSERVER OF EXPERIMENTAL SUBJECTS/ANIMALS I
33	
34	
35	IWRITE RESEARCH PROGRESS REPORTS
36	 SELECT EXPERIMENTAL SUBJECTS/ANIMALS
37	WRITE TECHNICAL PAPERS/REPORTS FOR PUBLICATION

Part II B LIST OF INSTRUMENTS AND EQUIPMENT

FF	•	_	ΔG	-	OB
			a.		UM

LEFT PAGE	OB PHARMACY IASK BUURLET
TASK NO.	I ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE OB I OF RESPONSE BOOKLET
1	BURN PACK
2	FIRST AID KIT
3	EMERGENCY DRUG SUPPLY (KIT, BOX, DRAWER)
4	THASS CASUALTY AID KIT
5	 IMMUNIZATION KITS -
6	 TRAY, ANTIDOTE (POISON)
7	f BBURETTE, MACRO 1
8	 Buret, micro
9	
10	 DISTILLING APPARATUS, WATER
11	WATER DEMINERALIZER
12	DESSICATOR
13	 PIPET
14	ISTOP WATCH
15	 THERMOMETER LABORATORY
16	TIMER, LABORATORY
17	 VOLUMETRIC GLASSWARE (OTHER THAN BURETS AND PIPETS)
18	 Tube agitator/mixer/shaker
19	
20	IFLASK SHAKER
21	IGAS BURNERS, E.G. BUNSEN
22	MELTING POINT APPARATUS
23	
24	ISAND BATH
25	I IGLASS BEAD WATER BATH

0	TCUT	PAGE	ΩR

1 TACK NO	1 ENTER RECORDER TO CTATEMENTS OF OUR THEOLOGICAL CARE OF DACE OR
	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 08 OF RESPONSE BOOKLET
26	CHEMICAL FUME HOOD
27	 LAMINAR FLOW HOOD
28	 FLUORIMETER
29	
30	 COLORIMETER. E.G. KLETT
31	 PH METER
32	 PHOTOMETRIC TITRATOR
33	I COMPRESSOR
34	 Drying oven
35	SUCTION FUNNEL
36	 PIPET FILLER (RUBBER BULB)
37	 LAMP ALCOHOL
38	! !mechanical spatulator !
39	I I ANALYTICAL BALANCE
40	 DIRECT READ-OUT BALANCE, E.G. METTLER
41	TRIP BALANCE
42	 Pharmaceutical Balance Class a
43	 Pharmaceutical Balance Class B
44	 MECHANICAL MIXER. PHARMACEUTICAL
45	I Imortar and pestle I
46	TTRAY, COUNTING
47	CAPSULE FILLER. HAND OPERATED
48	 CINTMENT FILLER, HAND OPERATED
49	IDINTMENT MILL
50	 Microfiltration system

1 F	FT	PAGE	กจ

CELL PAGE	THANHAUT TASK BUUNCET
	ENTER RESPONSES TO STATEMENTS BELOW IN LEFT SIDE OF PAGE 09 OF RESPONSE BOOKLET
1	SUPPOSITORY MOLOS
2	TABLET PRESS
3	 CHEMICAL BATH CONTAINERS
4	HOMOGENIZER/BLENDER
	IMMERSION HEATER
6	NUMBERING MACHINE
7	TAPE MACHINE FOR PACKAGING
8	AUTOMATIC LABEL PRINTER, E.G. SOABAR
9	AUTOMATIC PRE-PACKING MACHINE (TABLETS, CAPSULES)
10	AUTOMATIC LIQUID PRE-PACKER
11	PHARMACY EQUIPMENT, FIELD USE
12	PUMP, ALSOP FILTER
13	IVATS, ALSOP, 10 TO 50 GALLON
14	GLASS WASHER/DRYER
15	ULTRASONIC CLEANER
16	SUCTION/VACUUM PUMP
17	AUTOCLAVE, DRY HEAT
18	AUTOCLAVE, GAS
19	AUTOCLAVE, STEAM
20	POCKET DOSIMETER
21	FILM BADGE
22	SLIDE RULE
23	ADDING MACHINE
24	ELECTRIC DESK CALCULATOR
25	TYPEWRITER

RIGHT	PAGE	09	PHARMACY	TASK	BOOKLET
		• •	· • • • • • • • • • • • • • • • • • • •		

TASK NO.	ENTER RESPONSES TO STATEMENTS BELOW IN RIGHT SIDE OF PAGE 09 OF RESPONSE BOOKLET
26	ADDRESSOGRAPH MACHINE. AUTOMATIC

27 | ADDRESSOGRAPH MACHINE, MANUAL